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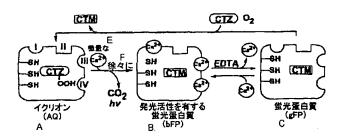
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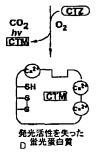
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- (54) Title: FLUORESCENT PROTEIN
- (54) 発明の名称: 蛍光蛋白質





- A... AEQUORIN (AQ)
- **B... FLUORESCENT PROTEIN HAVING** LUMINESCENT ACTIVITY (bFP)
- ... FLUORESCENT PROTEIN (gFP)
- D... FLUORESCENT PROTEIN HAVING LOST
- LUMINESCENT ACTIVITY
- E... MINUTE AMT. OF
- F... SLOWLY

(57) Abstract: A fluorescent protein (bFP) having chemiluminescent activity being a composite composed of an apoprotein being a calcium binding type luminescent protein, coelenteramide or an analogous compound thereof and calcium ion or a divalent or trivalent ion substitutable for calcium ion, wherein the ratio in number of molecules of apoprotein and coelenteramide is 1:1 while the ratio in number of molecules of apoprotein and divalent or trivalent ion is 1: 1 to 4. This fluorescent protein catalyzes the luminescence of coelenterazine and has fluorescence emitting capability, so that it is utilized as a marker. A novel fluorescent protein (gFP) is obtained by removing calcium ion, etc. from the fluorescent protein (bFP) having luminescent activity. When the fluorescent protein (gFP) is mixed with coelenterazine, there is provided a calcium binding type luminescent protein, which realizes instantaneous light emission by the action of calcium to thereby enable use as a marker.

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